

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO041674	ACI001-VC	1	1	Net 30	M6061T6B1.250X4.500	6061-T6 Bar 1.25 X 4.50 :				12	11/21/2018	12	S131147	Stock	11/23/2018	\$ 34.79 / ft	0		\$417.50	Acier Ouellette Inc.	
		2				MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft															
		10				M6061T6B1.750X1.750	6061-T6 Bar 1.750 X 1.750 :			12			S131148	Stock	11/23/2018	\$ 14.25 / ft	0		\$170.96	Acier Ouellette Inc.	
		11				T6/T6511/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft															
		12				M6061T6R1.875	6061-T6 Round Bar 1.875" : MATERIAL: 6061-T6/T6511/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft			12			S131149	Stock	11/23/2018	\$ 18.75 / ft	0		\$225.00	Acier Ouellette Inc.	
		13				M6061T6R2.750	6061-T6 Round Bar 2.750" : MATERIAL: 6061-T6/T6511/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft			20			S131150	Stock	11/23/2018	\$ 22.65 / ft	0		\$453.05	Acier Ouellette Inc.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041674

E-MAILED
NOV 09 2018

Supplier:	ACI001-VC Acer Ouellette Inc. 935 Boul. Du Havre Valleyfield QC J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696	PO No:	PO041674
		PO Date:	11/9/18
		Due Date:	11/15/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lavoie, Chantal Phone: clavoie@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	extra charge for palette quote no: SOU0144781

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M6061T6B1.250X4.500		6061-T6 Bar 1.25 X 4.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/9/18	12 ft	0 ft	12 ft	\$34.791666/ft	\$417.50
2		M6061T6B1.750X1.750		6061T6 Bar 1.750 X 1.750 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	12 ft	0 ft	12 ft	\$14.246666/ft	\$170.96
3		M6061T6B0.375X1.000		6061T6 Bar .375 X 1.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$1.575/ft	\$31.50



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4		M6061T6B0.750X06.000		6061T6 Bar .750 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	24 ft	✓ 24ft	At 18/11/14	\$20.355/ft	\$488.52
5		M6061T6B1.000X1.000		6061T6 Bar 1.000 X 1.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	24 ft	✓ 24ft	At 18/11/14	\$4.115833/ft	\$98.78
6		M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	36 ft	✓ 36ft	At 18/11/14	\$10.318/ft	\$371.45
7		M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	40 ft	0 ft	40 ft	\$3.015/ft	\$120.60
8		M6061T6R1.250		6061-T6 Round Bar 1.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	40 ft	0 ft	40 ft	\$4.697/ft	\$187.88



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9		M6061T6R0.500		6061-T6 Round Bar .500" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$0.8085/ft	\$16.17
10		M6061T6R1.875		6061-T6 Round Bar 1.875" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	12 ft	0 ft	12 ft	\$18.75/ft	\$225.00
11		M6061T6R2.750		6061-T6 Round Bar 2.750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$18.75/ft	\$375.00
Line Item Note		NOTE CUT BAR IN SECTION OF 10 FT										
12		M6061T6S.500		6061-T6 0.500 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	11/15/18	16 sf	0 sf	16 sf	\$29.8875/sf	\$478.20
Line Item Note		1 PCS 48" X 48"										
13		M304R1.000		304 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	11/15/18	36 ft	0 ft	36 ft	\$12.654416/ft	\$455.56
14		M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	11/15/18	12 ft	0 ft	12 ft	\$1.2558333/ft	\$15.07



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16 <i>AT</i>		MT-4140QT-R0.375		AISI 4140 Quenched & Tempered Steel Round Bar 0.375" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	-	11/23/18	12 ft	0 ft	12 ft	\$31.96/ft	\$383.52
16 <i>AT</i>		MT-4140QT-R0.875		AISI 4140 Quenched & Tempered Steel Round Bar 0.875" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$4.2115/ft	\$84.23
Line Item Note: note cut bar in section 10 ft												
17 <i>AT</i>		MT-4140QT-R4.500		AISI 4140 Quenched & Tempered Steel Round Bar 4.500" Dia. : MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT	Firmed	-	11/15/18	5 ft	0 ft	5 ft	\$79.466/ft	\$397.33
18 <i>AT</i>		MT-1144-R4.000		AISI 1144 Stressproof Round Bar 4.000" : MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	Firmed	-	11/23/18	8 ft	0 ft	8 ft	\$98.125/ft	\$785.00
19 <i>AT</i>		MT-1144-R5.000		AISI 1144 Stressproof Round Bar 5.000" : MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	Firmed	-	11/15/18	4 ft	0 ft	4 ft	\$397.1625/ft	\$1,588.65



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20		MT-4140-S-2.000X4.000		Steel Plate : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed -		11/15/18	8 ft	0 ft	8 ft	\$98.125/ft	\$785.00
									✓ 8ft			AT 18/11/23
21		MT-4140-S-1.500X2.000		4140 Steel Bar 1.500 X 2.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed -		11/15/18	8 ft	0 ft	8 ft	\$48.125/ft	\$385.00
									✓ 8ft			AT 18/11/23
22		MT-A513-T-5.250W0.375		ASTM A513 Type 5 Alloy Steel Round Tubing 5.250 Dia, 0.375 Wall	Firmed -		11/15/18	8 ft	0 ft	8 ft	\$103.75/ft	\$830.00
									✓ 12ft			AT 18/11/23
23		MT-O1-B-0.375X0.500		Tool Steel Bar 0.375" X 0.500"	Firmed -		11/15/18	6 ft	0 ft	6 ft	\$21.08333/ft	\$126.50
24		MT-O1-R0.375		Tool Steel Round Bar 0.375 dia.	Firmed -		11/15/18	6 ft	0 ft	6 ft	\$4.866666/ft	\$29.20
25		M304S11GA		304/316 0.125 Sheet MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed -		11/15/18	32 sf	0 sf	32 sf	\$15.5375/sf	\$497.20
									✓ 32sf			AT 18/11/23
26		MT-4140QT-R9.000		AISI 4140 Q&T Round Bar 9.000" Dia.	Firmed -		11/15/18	2.25 ft	0 ft	2 ft	\$724.60444/ft	\$1,630.36
									✓ 2.25ft			AT 18/11/23

Line Item Note 6 pcs of 4.50"

Grand Total: \$10,974.18

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/9/18 1:12 PM dart.lavoie.chantal


ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0144781

Billed to

DART AEROSPACE LTD
 1270 , ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270 , ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Customer N° CLI0001056

Date 2018/11/06

Revision N° 0

Prices valid until 2018/11/13

Your Order N°
Processed by Josianne Bourdon

Salesman DENIS

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 1

Product N° and description	Weight	Qty U/M	Qty U/M Price	Pcs Nb	Price	Amount
FLAT ALU 1 1/4 X 4 1/2 6061-T6 NS FAL-114412 9693 <i>1 X 12' 3-4 DAYS</i>	79.38	12.00 PI_\$CLB	12.00UN_\$UN	1.00	417.500	417.50
FLAT ALU 2 X 6 6061-T6 N <i>1 X 12' STOCK</i>	0.00	12.00 UN	12.00 UN	1.00	3 540.000	3 540.00
SQUARE ALU 1 3/4 6061-T6 RANDOM NS CAL-134-V 8670 <i>1 X 12' 2-3 DAYS</i>	43.18	12.00 PI_\$CLB	12.00UN_\$UN	1.00	170.960	170.96
FLAT ALU 3/8 X 1 6061-T6 * FAL-381 2613 <i>1 X 20' STOCK</i>	9.00	20.00 PI_\$CLB	20.00 PI	1.00	31.500	31.50
FLAT ALU 1/8 X 3/4 6063-T5 * FAL-1834 2552 <i>5 X 21' STOCK</i>	11.87	105.00 PI_\$CLB	105.00 PI	5.00	8.306	41.53
FLAT ALU 3/4 X 6 6061-T6 * FAL-346 2601 <i>2 X 12' STOCK</i>	126.89	24.00 PI_\$CLB	24.00 PI	2.00	244.260	488.52
SQUARE ALU 1 6061-T6 * CAL-1 1781 <i>2 X 12' STOCK</i>	28.22	24.00 PI_\$CLB	24.00 PI	2.00	49.390	98.78
FLAT ALU 1 1/4 X 2 6061-T6 * FAL-1142 2456 <i>3 X 12' STOCK</i>	105.84	36.00 PI_\$CLB	36.00 PI	3.00	123.816	371.45
ROUND ALU 1 6061-T6 * RAL-1 5141 <i>2 X 20' STOCK</i>	37.00	40.00 PI_\$CLB	40.00 PI	2.00	60.300	120.60
ROUND ALU 1 1/4 6061-T6 * RAL-114 5121 <i>2 X 20' STOCK</i>	57.64	40.00 PI_\$CLB	40.00 PI	2.00	93.940	187.88

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0144781

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Customer N° CLI0001056**Date** 2018/11/06**Revision N°** 0**Prices valid until** 2018/11/13**Your Order N°****Processed by** Josianne Bourdon**Salesman** DENIS**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 2

Product N° and description	Weight	Qty U/M	Qty U/M Price	Pcs Nb	Price	Amount
ROUND ALU 1/2 6061-T6 * RAL-12 5127 1 X 20' STOCK	4.62	20.00 PI_\$CLB	20.00 PI	1.00	16.170	16.17
ROUND ALU 1.875 6061-T6 N 1 X 12' 2-3 DAYS	0.00	1.00 UN	1.00 UN	1.00	225.000	225.00
ROUND ALU 2 3/4 6061-T6 * RAL-234 5148 1 X 20' 2-3 DAYS	139.40	20.00 PI_\$CLB	20.00 PI	1.00	453.050	453.05
ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V 4229 1 PL. 48" X 48" STOCK	116.00	16.00 PI2_\$CLB	16.00 PI2	1.00	478.200	478.20
SAW CUT SCIE 1		1.00 UN	1.00			
ROUND SS 1 304 (R) RSS-1 5747 3 X 12' R/L STOCK	96.12	36.00 PI_\$CLB	36.00 PI	3.00	151.853	455.56
ROUND SS 3/8 304 (R) RSS-38 5768 1 X 12' R/L STOCK	4.51	12.00 PI_\$CLB	12.00 PI	1.00	15.070	15.07
FLAT 1 1/4 X 3 * F-1143 2133 1 X 10' STOCK	127.50	10.00 PI_\$CLB	10.00 PI	1.00	132.340	132.34
SAW CUT SCIE 1		1.00 UN	1.00			
ROUND 4140 HEAT TREAT 3/8 NS R4140-38H 9446 1 X 12' 7-10 DAYS	4.51	12.00 PI_\$CLB	12.00 UN_\$UN 31.96			383.52

Date :

Next Page...

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Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HEAT TREAT 7/8 (R) R4140-78H 4997 1 X 20' R/L STOCK	40.90	20.00 PI_\$CLB	20.00 PI		1.00	84.230	84.23
ROUND 4140 ANNEALED 4 1/2 (R) R4140-412A 4957 1 X 5' DC STOCK	277.95	5.00 PI_\$CLB	5.00 PI		5.00	79.466	397.33
ROUND 4140 HEAT TREAT 9 NS R4140-9H 9642 6 X 4 1/2" 7-10 DAYS	486.68	2.25 PI_\$CLB	2.25UN_\$UN		6.00	271.726	1 630.36
ROUND STRESSPROOF 4 (R) RST-4 5820 1 X 10' STOCK	427.20	10.00 PI_\$CLB	10.00 PI		1.00	548.060	548.06
SAW CUT SCIE 1		1.00 UN	1.00				
ROUND STRESSPROOF 5 RANDOM NS RST-5-V 9054 1 X 4' 7-10 DAYS	267.00	4.00 PI_\$CLB	4.00UN_\$UN		1.00	1 588.650	1 588.65
PLAT 2.0 X 4.0 4140 N 1 X 8' 7-10 DAYS	0.00	1.00 UN	1.00 UN		1.00	785.000	785.00
PLAT 1.5 X 2.0 4140 N 1 X 8' 7-10 DAYS	0.00	1.00 UN	1.00 UN		1.00	385.000	385.00
MECH TUBE 5.25 X .375W A-513 N 1 X 8' 3-5 DAYS	0.00	1.00 UN	1.00 UN		1.00	830.000	830.00
PLAT 3/8 X 1/2 0-1 N 2 X 3' 3-5 DAYS	0.00	2.00 UN	2.00 UN		2.00	63.250	126.50

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Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROND 3/8 0-1 N 2 X 3' 3-5 DAYS	0.00	2.00	UN	2.00	UN		2.00	14.600	29.20
SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B 3402 1 X 4' X 8' STOCK	168.00	32.00	PI2_\$CLB	1.00	UN		1.00	497.200	497.20
PALETTE PALETTE 7573	0.00	1.00	UN_\$UN	1.00	UN_\$UN		1.00	40.000	40.00
FUEL CHARGE FRAIS_ENERGETIQUE NOTE : ATTENTION: MILL TEST REQUIS			\$						3.95

Total Weight (Lbs) 2 659.41**Important**

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices and international importation fees.
This offer is subject to credit approval.

Approuved and Accepted by :

Sub-total 14 573.11

TVH-13 · · 1894.50

Date :

Total (\$CAD)

16 467.61

Chantal Lavoie

From: Chantal Lavoie
Sent: Tuesday, November 06, 2018 1:35 PM
To: 'Denis Quenneville'
Subject: quote

Good afternoon Denis,
Please advise price on delivery on mat'l.

6061-t6 bar 1.250" x 4.5" x 12 ft

6061-t6 bar 6" x 2" x 12 ft

6061-t6 bar 1.750" x 1.750" x 12 ft

6061-t6 bar 0.375" x 1" x 12 ft

6061-t6 bar 0.750" x 0.125" x 100 ft

6061-t6 bar 0.750" x 6" x 24 ft

6061-t6 bar 1" x 1" x 24 ft

6061-t6 bar 2" x 1.250" x 36 ft

6061-t6 round bar 1" x 24 ft

6061-t6 round bar 1.250" x 24 ft

6061-t6 round bar 0.500" x 12 ft

6061-t6 round bar 1.875" x 12 ft

6061-t6 round bar 2.750" x 12 ft

6061-t6 sheet 0.500" x 1 pcs of 4 ft x 4 ft

304 round bar 1" x 36 ft

304 round bar 0.375" x 12 ft

Hrs bar 1.250" x 2.5" x 8 ft

4140 qt round bar 0.375" x 12 ft

4140 qt round bar 0.875" x 12 ft

4140 round bar 4.5" x 3 ft

4140 qt round bar 9" x cut to size 4.50" x 6 pes

1144 round bar 4" x 6 ft

1144 round bar 5" x 4 ft

4140 bar 2" x 4" x 8 ft

4140 bar 1.5" x 2" x 8 ft

A513 round tubing 5.250" x 0.375" x 12 ft

O1 bar 0.375" x 0.500" x 6 ft

O1 round bar 0.375" x 6 ft

304 sheet 11ga x 32 sf

Thanks
Chantal

Chantal Lavoie
Purchasing Coordinator

DART AEROSPACE
T 1 613 632-5200
F 1 613 632-1053
E clavoie@dartaero.com
1 800 556- 4166
www.dartaerospace.com





ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry-de-Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

C000120092

Billed to
DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7
Att : LUSSIER Tél.: (613) 632-5200 X 730
Instruction F-M
Delivery Route 5
+ drop off

Product Description	Weight	Qty	UM	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
1 FLAT ALU 1 1/4 X 4 1/2 6061-T6 NS FAL-114412 9693 1 X 12' HEAT: 05281804 AC21531-THY-14/11	79.38	12.00	PI_\$CLB								
2 SQUARE ALU 1 3/4 6061-T6 RANDOM NS CAL-134-V 8670 1 X 12' HEAT 894382 AC21549-RV-14/11	43.18	12.00	PI_\$CLB								
3 ROUND ALU 1 7/8 6061-T6 NS RAL-178 12192 1 X 12' Heat 200227259 AC21531-THY-14/11	38.92	12.00	PI_\$CLB								
4 ROUND ALU 2 3/4 6061-T6 * RAL-234 5148 1 X 20' HEAT 5X6150109 TRANSIT ST-JEROME LE 14/11	139.40	20.00	PI_\$CLB								
5 ROUND STRESSPROOF 4 (R) RST-4 5820 1 X 10' HEAT A140456 TRANSIT ST-JEROME LE 14/11	427.20	10.00	PI_\$CLB								
SAW CUT											
6 TUBE MEC 5.250 OD X .375 NS TME-5250375 12191 1 X 12' HEAT 0110119 AC21532-JG-21/11	234.24	12.00	PI_\$PI								

not delivered

DELIVERY - CLIENT

CO00120092

Product Description		Qty	Weight	UM	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
7 FLAT GRD STOCK 01 3/8 X 1/2 NS FO1-3812 2 X 3' HEAT AC21534-FU-14/11	10918 <i>B10</i>	3.83	6.00	PI								
8 ROUND 01 - 3/8 NS RO1-38 2 X 3' HEAT AC21534-FU-14/11	12194 <i>B10</i>	2.26	6.00	PI \$CLB								

Note : ATTENTION: MILL TEST REQUIS**Total Weight (Lbs) :** 968.41**NIR :** R-109516-6**Conditions :**

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice, to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature	Date
----------------------	------

(8/11/23)	Y M D
-----------	-------

**ACIER OUELLETTE INC.**

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT**COPY**

CO00120175

Billed to		Shipped to		Customer N°	Customer N°		
Instruction	F/M	Delivery Route	5	Date	CLI0001056 2018/11/12		
				Delivery date	2018/11/26		
				Your order N°	041674		
				Processed by	Josianne Bourdon		
				Salesman			
				Carrier	OUELETTE VALLEYFIELD		
				Credit Termes	Net 30 Days		
Product Description				Weight	Qty	UM	Internal Use Only
1 ROUND 4140 HEAT TREAT 3/8 NS				4.51	12.00	PI_\$CLB	IN
R4140-38H	9446						I
1 X 12' HEAT							S
AC21548-CAS-22/11							C
Heat: D1537							O
2 ROUND 4140 HEAT TREAT 9 NS				486.68	2.25	PI_\$CLB	
R4140-9H	9642						
6 X 4 1/2" HEAT							
AC21547-EU-21/11							
Heat: L8121							
3 PLATE 4140 HEAT TREAT 2 NS				218.12	2.67	PI2_\$CLB	
P4140-2H	9072						
1 X 4" X 96" HEAT							
AC21542-FU-21/11							
Heat: 300536							
4 PLATE 4140 HEAT TREAT 1 1/2 NS				2.17	1.33	PI2_\$CLB	
P4140-112H	8283						
1 X 8" X 2" HEAT							
AC21547-EU-21/11							
Heat: 304714							

Note : ATTENTION: MILL TEST REQUIS



DELIVERY - CLIENT

Product Description

C000120175

Conditions :	Qty	Weight	UM	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is followed by the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.							NIR : R-109516-6		
Total Weight (lbs) :	711.48								

Prepared By : _____

Verified By : _____

Delivered By : _____

Time : _____

Customer's Signature : _____

Y	M	D
18	11	23

Date _____

1200-12

Dart

Service Center Metals

5850 Quality Way
Prince George, VA 23875



Can Do.

BILL TO

SHIP TO



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
953979	7

CERTIFICATION
ASTM-B221-14 Stencil/Cont
 SPECIFICATION
SAE AMS-QQA-200/8A Stabilized
 SPECIFICATION

MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
371534	MRB1771	6/26/2018
CUSTOMER PO	ALLOY / TEMPER	SALESPERSON
5400404994	6061-T6511	D.Schroeder (Canada)
CUSTOMER PART NUMBER	DESCRIPTION	
ALREC00162	MQRB 1.250x4.500	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation		
			min	max	min	max	min
1	201811618	6/25/18	51.50	51.50	47.10	47.10	16.70

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Each	Total	Melt Source:
05281804	201811618	6061	0.74	0.37	0.35	0.10	0.86	0.08	0.07	0.03	97.40	0.05	0.15	United States of America	

SCM products are melted and extruded in the USA

Print Date: 6/26/2018

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 3/14/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T651/T651/T62 ALUMINUM BAR
SPECIFICATION:
QQ-A-225/8 OR AMS-QQA-225/8 (OR AMS 4117/4/128/4/115/4116)
OR QQ-A-200/8 OR AMS-QQA-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B	T.TTT	X	WW.WWW
	THICK	WIDTH	

WHERE "T.TTT" = THICKNESS IN INCHES

"WW.WWW" = WIDTH IN INCHES

E.G. 10" X 12.0" BAR = M6061T6B1.000X12.000

A

RELEASED
2009-05-03
[Signature]

B	REMOVE 00-4-75011 OPTION, REFORMAT NOTE S, ADD ASTM B211(B221)Z(N27-1)	CP	09-07-13
A	NEW ISSUE	DS	01-06-08
REV.	DESCRIPTION	BY	DATE
DS	DART AEROSPACE LTD		
DS	HAWKESBURY, ONTARIO, CANADA		
DS	DRAWING NO.		REV. B
DS	M6061T6B		SHEET 1 OF 1
DS	TITLE		SCALE
DS	6061-T6 BAR		NTS
DS	DEPARTMENT: 600 BY DART AEROSPACE LTD		REVISION: 000 BY DART AEROSPACE LTD
DS	FILE NUMBER: 6061T6BAR		DATE: 09-07-13

A

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1250x4.500
 DATE: 18/11/23

PO / BATCH NO.: P0041674, S131147

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12ft
 QUANTITY INSPECTED: 12ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	ASTM B21
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	H1-05281804
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>61</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>18/11/23</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

120092

Dart

21549 N


**SIGNATURE
ALUMINUM
CANADA INC.**
SIGNATURE ALUMINUM CANADA1850 CLEMENTS RD
PICKERING, ON L1W 3R8**CERTIFICATE OF COMPLIANCE**

Cert Date	Cert No.	Sales Order	Page
02/10/2018	5465480	130941	1
Cust PO	B/L No	Lot	Date
4500861760	035845	894382	02/12/18

Sold To			
Item No	Part No	Item Description	Cust Part
001	C-011508-9	12 MILL 6061 T6511	
Gross Weight	1,380	LBS	
Net Qty	1,362	LBS	32 PCS 1 PKGS
Specification			Die Desc
ASTM B221-13			

Mechanical Tests:

Tensile	Yield	% Elongation	Conductivity	HRE
MPA / KSI	MPA / KSI			
313.8 / 45.5	287.6 / 41.7	17.4	N/A	94

Chemical Analysis:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	V	Zr
0.63	0.26	0.22	0.05	0.90	0.07	0.03	0.01	0.01	0.00

*This Material is Made in Canada**This Material is RoHS Compliant*

This will certify that the material described herein has been inspected and tested in accordance with Signature Aluminum Canada's standard sampling and testing procedures or in accordance with the requirements of any specification forming a part of the material description to the extent indicated herein. Data of chemical composition for the material and test results from samples representative of the material are set forth above hereof or in any attachments hereto. This information shows that the material meets the applicable requirements. Inspection and test records are maintained on file. This certificate shall be deemed apart of and subject to the terms and conditions of warranty set forth on the reverse side of our order acknowledgement form. No other warranties are applicable.

S. Gooder
Quality Manager
Signature Aluminum Canada Inc

Heat: 894382

ISO 9001/TS16949 Registered Company

Visit us at www.signaturealum.com

Rev A

CERTIFICATION DU MATERIEL

CLIENT: ACIER OUELLETTE INC DIV.DE
SALABERRY-DE-VALLEYFIELD

935 BOUL DU HAVRE
 SALABERRY-DE-VALLEYFIELD, QUEBEC
 QC J6S 5L1

NUMÉRO DE COMMANDE: 15086026 000010

COMMANDE DU CLIENT: ac00021549 10

NUMÉRO DE PIÈCES: 8670

NUMÉRO DE LIVRAISON: 803980218 000010

NUMÉRO D'ARTICLE: 160001146

DESCRIPTION INVENTAIRE: SQ EXT 6061 T6511 1.75 X 144

DESCRIPTION ARTICLE FINIS: ALUM Barre SQ EXT 6061 T6511

1.75po X 144po

NUMERO (S) DE COULEE BRAME / BOBINE / TIN (le cas échéant)

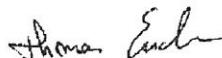
894382 411066

CERTIFICATION

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système qui pourrait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié à qu'il a été produit conformément aux spécifications suivantes:

ASTM B221



Thomas Endres

Vice-président - Approvisionnement

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T 6 B1.750 x 1.750
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131148

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12ft
 QUANTITY INSPECTED: 12ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750"
 THICKNESS RECEIVED: 1.750"
 SHEET SIZE ORDERED: =
 SHEET SIZE RECEIVED: =

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<u>ASTM B201</u>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<u>HT: 8943B2</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>61</u> <u>9-89</u>	SIGNED OFF BY: _____	DATE: _____
DATE: <u>18/11/23</u>		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

120097

Dout

21531 N
②
Best in Class
CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:							
5400407322-6		ALRD00068		KAISERSELECT PRECISION ROD 1.875+/-0.005							
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER:	ALLOY:	TEMPER:					
6056577	006	06/25/2018		Z00227259	6061	T6511B					
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		DIAM/DAF/THKNS:	WIDTH:	LENGTH:					
1013.000 LB	26.000 PCS	623233				12.000 FT					
SHIP TO:											
SOLD TO:											

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00227259	0001	0001	55.2	52.1	14.7	RE	93	N/A
Z00227259	0001	0002	51.3	47.2	16.1	RE	95	N/A
Z00227259	0001	0003	51.0	47.2	18.6	RE	96	N/A
Z00227259	0001	0004	55.5	52.2	14.5	RE	93	N/A
Z00227259	0001	0005	52.0	48.4	15.7	RE	96	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108678	.78	.27	.31	.10	.95	.09	.05	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Z 00227259

Plant Serial: 00339773
Kaiser Order Number: 6056577
Line Item: 006



A handwritten signature in cursive ink that reads "Best in Class".

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

A handwritten signature in cursive ink that appears to read "Aimee L. Macnowski".

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: M6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:
QQ-A-225B OR AMS-QQA-225B (OR AMS 4117412841154116)
OR QQ-A-2008 OR AMS-QQA-2008 (OR AMS 4160)

OR ASTM B211 OR ASTM B221
M60616R (D. DDD)
| DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M60616R0 625

RELEASED
2009-09-09
[Signature]

B	REFORMAT: QNC ADD B211& R221 SPEC (ZN DR-1).	C/P	09-07-13
A	REF ID: 08-0266	DS	01-06-08
REV	NEW ISSUE	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO CANADA	
CHECKED	<i>[Signature]</i>	REV B	
MFG. APPR	<i>[Signature]</i>	DRAWING NO.	
APPROVED	<i>[Signature]</i>	M60616R	
DE APR	<i>[Signature]</i>	SCALE	
DATE	09.07.13	NTS	

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ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD.

IT IS NOT TO BE COPIED, USED, OR DISCLOSED WITHOUT THE EXPRESS WRITTEN CONSENT OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6R1.875
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131199

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12ft
 QUANTITY INSPECTED: 12ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.875"
 THICKNESS RECEIVED: 1.875"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

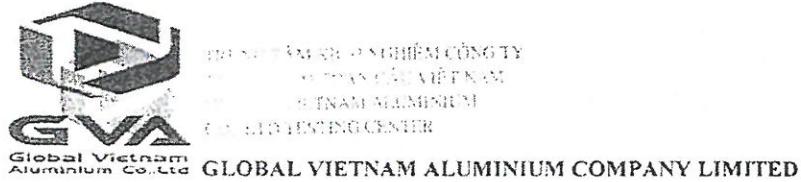
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<i>ASME B21</i>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<i>HT: Z00227259</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> <u>9-09</u>	SIGNED OFF BY: _____
DATE: <u>A/18/11/23</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Address: My Xuan B1-Conac industrial zone, My Xuan town, Tan Thanh district,
Ba Ria-Vung Tau province, Viet Nam
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: June 25th 2015

PO number: 15-P-060
Shipping Ref No.: 15-0421
LC No.: DC HMN330723
Date of issue: 26 June, 2015
Item Code: 1043702
Die Number: D00020
Alloy & Temper: 6061-T6
Production Description: Round Bar 2.75" x 20'
Length (inch): 240
Quantity (pieces): 7
Bundle number: 15-P-060-016
Heat Number: SXB150109
Lot Number: JY150570F
Date: 28-05-2015
Applicable Specifications: ASTM B221 STANDARDS
CHEMICAL ANALYSIS: %

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Al	Remark:
								EACH	TOTAL		
0.562	0.132	0.245	0.025	0.906	0.045	0.009	0.020	<0.05	<0.15	98.021	25/05/2015

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
53.0	48.4	14.5	25/05/2015

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager

Heat: SXB 150109

BR-34

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: M6061-T6/T651/T6510/T6511/T652 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225B OR AMS-QQ-A-225B (OR AMS 4117/4128/4115/4116)
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6RID.DDD

| DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0 625

RELEASED
2009-09-09
Mp

REFORMATTED DWG ADD 02118.B221 SPEC (EN D6-1)		CP	09/07/13
REF PAGE CB/020A		OS	01/06/06
A	NEW ISSUE	BY	DATE
REV	DESCRIPTION	DART AEROSPACE LTD	
DESIGN		HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M6061T6R	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		6061-T6 ROUND BAR	NTS
DE APPR		COPYRIGHT © 2001 DART AEROSPACE LTD	
DATE	09.07.13	ALL INFORMATION CONTAINED HEREIN IS UNPUBLISHED PROPRIETARY INFORMATION.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6R2.750
 DATE: 18/11/23

PO / BATCH NO.: P0041674/5131150

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20.4
 QUANTITY INSPECTED: 20.4
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.750"
 THICKNESS RECEIVED: 2.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<i>ASTM B221</i>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<i>HT: SXB/50/09</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <u>61</u> <u>9.80</u>	SIGNED OFF BY: _____
DATE: <u>18/11/23</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

120175

Dart

21548 N



21042 Brescello Parma (LC) - Via Giuseppe Ross 1 - 23.0
Tel. +39 0525 61111 - Fax +39 0525 617332
E-mail: www.rodacciai.com - E-mail: info@rodacciai.com

Azienda con sistema di gestione certificato da IGC
secondo UNI EN ISO 9001:2008

The Company's Quality Management System
is certified by IGC according to UNI EN ISO 9001:2008

(2)

CERTIFICATO DI CONTROLLO Inspection Certif. N. 080335 Date 31/05/2018

Secondo According to EN 10204:2004 3.1

DESTINATARIO - Cargo-Receiver

CLIENTE - Customer

RODA SPECIALTY STEEL, INC.

RODA SPECIALTY STEEL, INC.

200 LEXINGTON DR
600089 BUFFALO GROVE ILLINOIS

200 LEXINGTON DRIVE
600089 BUFFALO GROVE IL.

ORDINE - Order D.d.T. - Delivery note
N. 902061 Date 30/10/2017 N. 06797/13 Date 6/06/2018

Weight Lb 4894 Cdp. Nr. 2017/A/58448
Bar Length 12 - 12 ft.

QUALITA' - Grade

STANDARD ASTM A193/A193M 16

Grade B7

STANDARD ASME SA A193/A193M

Grade B7

MARK RODACCIAI RK1 / B7 Melted in :

→ COLATA - Heat D1537 ORI MARTIN S.P.A.

PROFILO - Shape ROUND Italy I

DIMENSIONE - Size 3/8"

TRATTAMENTO - Heat Treatment QUENCHED AND TEMPERED

ESECUZIONE - Form of delivery COLD DRAWN

ANALISI CHIMICA DI COLATA - Cast analysis % by mass

C	Mn	Si	S	P	Cr	Ni	Mo	Al	Cu
0,430	0,780	0,200	0,0240	0,010	1,070	0,090	0,160	0,023	0,100

B
0,0001

CARATTERISTICHE MECCANICHE ALLO STATO DI FORNITURA

Mechanical properties of the delivered material

	Tested	Min	Max
Tensile Strength	Rm PSI	141162,3	130000
Yield Strength	RP(0,2) PSI	117021,4	110000
Elongation	A 4 (%)	26,3	16
Hardness	HBW	289,0	321
Reduction of area	Z (%)	55,7	50

heat: D 1537

REISSUE ONLY

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 ROUND BAR

MINIMUM ROCKWELL C = 28 RC
MAXIMUM ROCKWELL C = 32 RC

SPECIFICATION:
ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, ASTM A434-BC/BD, ASTM A193-B7

PART NUMBER:
MT-4140-R-[D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES

EX. 4" ROUND BAR = MT-4140-R-4.000

NOTE:
ALSO COMMONLY KNOWN AS AISI 4140 HT/QT

REV.	DESCRIPTION	ECN #	BY
B	MINIMAX RC UPDATED, ADDED NOTE FOR HT/QT, ADDED ASTM A434-BC/BD, ASTM A193- B7 AND MIL-S-5626	18-524	KK
A	NEW ISSUE	17-790	VM

A

DESIGN DRAWN	KPT	TOOL PART #	REV. B
CHECKED	VM 01/24/2018	MT-4140-R	SHEET 1 OF 1
MFG. APPR.	FK		SCALE
APPROVED	<i>[Signature]</i>	TITLE	NFS

B

DATE	TITLE	ECN #	BY
11/27/2018	AISI 4140 ROUND BAR		

C

DATE	TITLE	ECN #	BY

D

DATE	TITLE	ECN #	BY

E

DATE	TITLE	ECN #	BY

F

DATE	TITLE	ECN #	BY

G

DATE	TITLE	ECN #	BY

H

DATE	TITLE	ECN #	BY

I

DATE	TITLE	ECN #	BY

J

DATE	TITLE	ECN #	BY

K

DATE	TITLE	ECN #	BY

L

DATE	TITLE	ECN #	BY

M

DATE	TITLE	ECN #	BY

N

DATE	TITLE	ECN #	BY

O

DATE	TITLE	ECN #	BY

P

DATE	TITLE	ECN #	BY

Q

DATE	TITLE	ECN #	BY

R

DATE	TITLE	ECN #	BY

S

DATE	TITLE	ECN #	BY

T

DATE	TITLE	ECN #	BY

U

DATE	TITLE	ECN #	BY

V

DATE	TITLE	ECN #	BY

W

DATE	TITLE	ECN #	BY

X

DATE	TITLE	ECN #	BY

Y

DATE	TITLE	ECN #	BY

Z

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140 QT-RD.325
 DATE: 18/11/27

PO / BATCH NO.: P0041674/5131151

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 124
 QUANTITY INSPECTED: 124
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375"
 THICKNESS RECEIVED: 0.375"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	<u>ASTM A193-B7</u>
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<u>H.D1537</u>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>61</u> <u>9-89</u> DATE: <u>18/11/27</u>	SIGNED OFF BY: _____
	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5020

Rst-4.

Eaton Steel Bar Company Inspection Certificate 1606341

EN 10204:2004-3.1

Customer

BOL

Ship Date

Customer PO

Item

Customer Item

Item Description

22-Nov-2016

B97156

1009791 rev 002

4 CB RD 1144 RD 12H SBQ SRA S2 CGP RT

All bundles listed below were produced using steel from Heat A10456 issued by STEEL DYNAMICS INC and were completed from Eaton Steel Job 763009.

Chemistry	Description	Value	Units
C	Carbon	0.40000	PHST
Mn	Manganese	1.42000	PHST
P	Phosphorus	0.01100	PHST
S	Sulfur	0.29000	PHST
Si	Silicon	0.25000	PHST
Ni	Nickel	0.06000	PHST
Cr	Chromium	0.15000	PHST
Mo	Molybdenum	0.03000	PHST
Al	Aluminum	0.00100	PHST
Ca	Copper	0.15000	PHST
V	Vanadium	0.00500	PHST
Cb	Columbium	0.00200	PHST
N	Nitrogen	0.01000	PHST
DI	Ideal Diameter	2.45000	IN
Geometry	Description	Value	Units
DIA METER	Diameter	3.9950 - 4.0000	IN
BUNDLE VARIATION	Wean Within Bundle Variation	0 - 2	IN
LENGTH	Length	140.0000 - 140.0000	IN
CF STRAIGHT	Cold Finished Deflection in loft.	0.00000 - 0.1250	IN
Mechanical	Description	Value	Units
TENSILE PSI	Tensile Strength in PSI Units	110400	PSI
YIELD PSI	Yield Strength in PSI Units	108000	PSI
ELONGATION	Percent Elongation	11.00	PCT
REDUCTION	Percent Reduction in Area	22.0	PCT
BRINELL SURF	Brinell Surface	245.0	BBN
Cold Working	Description	Value	Units
SEAM DEPTH	Allowable Seam Depth	0.0000 - 0.0960	IN
ASTM Standard	Description	Value	Units
A106-13	Steel Barz, CF Carbon & Alloy	CONFORMS	
A311 Clause B	Heavy Draft CD SRA	CONFORMS	
Tag Number	Qty	Length	
260-142698	3763	12ft6in	

Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual QM-00001 / Rev 3 / 2/26/13.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 22-Nov-2016

This document was prepared by means of electronic data processing and is valid without signature.

Thomas Shabot, Corporate Metallurgist

10221 Capital Avenue, Oak Park, MI 48237 USA

Tel: 248-398-3434

Fax: 248-398-1434

Heat: A1404570

03 Mechanical Testing Results - ASTM E 8-11											
Certificate Number: 2087.01 Testing Laboratory											
 ACCREDITED											
Comments:	Sample ID: 14-TML-1582-01										
WO 763009 Part 1009791 Size 4.00 CD RD Grade 1144 Heat A140456											
The following results are to ASTM E 8-11.											
0.2% Offset Yield Test Report											
<table border="1"> <thead> <tr> <th>0.2% Offset Yield psi</th> <th>108000</th> </tr> </thead> <tbody> <tr> <td>Ultimate Tensile psi</td> <td>118400</td> </tr> <tr> <td>Elongation Manual %</td> <td>11</td> </tr> <tr> <td>Reduction Area %</td> <td>22</td> </tr> <tr> <td colspan="2">Hardness Brinell</td> </tr> </tbody> </table>		0.2% Offset Yield psi	108000	Ultimate Tensile psi	118400	Elongation Manual %	11	Reduction Area %	22	Hardness Brinell	
0.2% Offset Yield psi	108000										
Ultimate Tensile psi	118400										
Elongation Manual %	11										
Reduction Area %	22										
Hardness Brinell											
Than Metallurgy's uncertainty values for this test are maintained on file and are available upon request Entered by: Steve Avery Entered Date: 08/05/2014 Approved by: Tom Sabo Approved Date: 08/05/2014											

Report # 14-TML-1582

Section 2 of 2 sections

09 Hardness Results - ASTM E 10-01

Certificate Number: 2087.01 (3,000 lb.)
Testing Laboratory



ACCREDITED

Comments: Sample ID: 14-TML-1682-01

WO 763009 Part 1009791 Size 4.00 CD RD Grade 1144 Heat A140456

The following results are in the HBW scale.

1	245	Mean	245
2	.	Std Dev	-
		Lowest	-
		Highest	-
		Range	-
		Total Tests	1
		Rejected	0

Titan Metallurgy's uncertainty values for this test are maintained on file and are available upon request.

Entered by: Steve Avery

Entered Date: 06/05/2014

Approved By: Tom Snabes

Approved Date: 06/05/2014

Report # 14-TML-1682

End of Report

Lab Services Report

10221 CAPITAL AVENUE
OAK PARK MI 48237
(248) 543-3578 telephone
(248) 398-1434 facsimile

Bill To:
00000
Eaton Steel Corporation
10221 Capital Avenue
Oak Park MI 48237
Attn:
Andrew Wurts
248-398-3434
severv@itanmetallurgy.com

Ship To:
Eaton Steel Corporation
10221 Capital Avenue
Oak Park MI 48237

Report Date:
06/06/2014

This report contains results for the indicated services performed on the following sample(s):

Customer Sample # Report

Section Service #

Titan Sample #

Report

Section

Service #

WO 763009 Part 1009791	Size 4.00 CD RD Grade 1144 Heat A140456
14-TML-1582-01 1	03 - Mechanical Testing - ASTM E 8-01 (1 Tensil)
WO 763009 Part 1009791	Size 4.00 CD RD Grade 1144 Heat A140456
14-TML-1582-01 2	08 - Hardness - ASTM E 10-01 (Brinell)

Any services within a section marked with * are not part of Titan Metallurgy's current A2LA accreditation.

Thomas J. Snabes, Metallurgist

All testing performed by Titan Metallurgy was done at ambient (room) temperature.

The results in this laboratory report relate only to the items tested.

For questions or comments contact us at 248-543-3578 or Qanda@itanmetallurgy.com.

Report # 14-TML-1582

Cover Page

Report # 14-TML-1582

Section 1 of 2 sections

SPECIFICATION CONTROL DRAWING

1	2	3	4	5	6	7	8
REV		DESCRIPTION		DATE		BY	APPROVED
A		NEW ISSUE		17-08-09		V.M.	V.M.

211.51.2
JULY 2013

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR
SPECIFICATION: ASTM A311 or UNS G11440
PART NUMBER: MT-1144-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-1144-R0.625

D

C

B

A

DART
AeroSpace
Manufacturing. Design. Create.
TITLE AISI 1144 STRESSPROOF STEEL
ROUND BAR
DRAWING NO. MT-1144-R
REV REV
DESIGN BY: VMA/B/J/2017 **FRACTIONS & UNITS**
DRAWN BY: VMA/B/J/2017 **IN INCHES**
CHECKED: X **1.41**
NEC APPROV: SAC-08/31/2017 **1. DIMENSIONS ARE IN INCHES**
DA APPROV: DE-08/31/2017 **2. UNLESS OTHERWISE SPECIFIED**
APPROVED: FD-08/31/2017 **3. ACTUAL MEASUREMENTS**
DATE: 08/31/2017 **4. DIMENSIONAL LIMITS APPLY**
SCALE: N.I.S. **5. MACHINED SURFACES**
SPHERE: 1/16" **6. SHEET 1 / OF 1**

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THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE DESIGN AND MANUFACTURE OF THE PARTS AS SPECIFIED ON THIS DRAWING ONLY. IT IS NOT TO BE COPIED OR USED FOR ANY OTHER PURPOSE. NO PARTS OF THIS DRAWING MAY BE REPRODUCED IN WHOLE OR IN PART.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-1144-R4.00
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S130152

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 10ft
 QUANTITY INSPECTED: 10ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000"
 THICKNESS RECEIVED: 4.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
	Y	N	
SURFACE DAMAGE	<u>Y</u>	<u>N</u>	
CORRECT FINISH	<u>Y</u>	<u>N</u>	
CORROSION	<u>Y</u>	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	<u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	<u>N</u>	
CORRECT THICKNESS	<u>Y</u>	<u>N</u>	
PHOTO REQUIRED	<u>Y</u>	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	<u>N</u>	
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	<u>N</u>	
CORRECT M# ON THE MATERIAL	<u>Y</u>	<u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u>	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u>	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u>	<u>61</u> <u>9-80</u>	SIGNED OFF BY: _____
DATE: <u>18/11/23</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**ACIER OUELLETTE INC.**

935, Boul. du Havre

Salaberry de Valleyfield (Q.-bec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4243 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT
Copy

CO00120218

Billed to	Shipped to		Customer N°	CLI0001056					
DART AEROSPACE LTD	1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7		Date	2018/11/12					
			Delivery date	2018/11/26					
			Your order N°	041674					
			Processed by	Josianne Bourdon					
Instruction	Salesman	Carrier	Credit Térme	OUELETTE VALLEYFIELD					
F-M	Att : LUSSIER	Carrier	Net 30 Days						
	Tél.: (613) 632-5200 X 730								
	Delivery Route	5							
Product Description	Weight	Qty	UM	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S
1 ROUND STRESSPROOF 5 RANDOM NS 9054 1 X 4' HEAT A180131 AC21560-JG-22/11	267.00	4.00	PI_\$CLB	(1X4)					
Note : ATTENTION: MILL TEST REQUIS				Total Weight (Lbs) :	267.00	NIR : R-109516-6			
Conditions : All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.									
Prepared By :	Verified By :	Delivered By :	Time						
<i>CL</i>	<i>Am</i>								
Customer's Signature								Date	

100010
CERTIFICATE OF TEST
CERTIFICAT D'ESSAIS

21560 N

Page 01 of 02

Certification Date
22-NOV-2018

Dart

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00021560

Invoice Number
T386186

PART NUMBER/NUMÉRO DE PIÈCE

547381

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD EXEMPTED DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6S

Description: STRESSPROOF CF BAR ASTM A108

5 RD S/C 4'0" (48.0")

Line total: 267.28 LB

HEAT: A180131

ITEM: 547381

Specifications:

ASTM A108 13

ASTM A29 16

ASTM A311 04

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	Mo
0.45	1.41	0.011	0.294	0.24	0.10	0.13	0.03
CU	AL	V	N	PB	B		
0.31	0.001	0.004	0.006	0.003	0.0017		

RCPT: R503328

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	BHN
	111613.0	126782.0	10.1	25.7	255

IDEAL DIAMETER : 2.58 IN

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST

CERTIFICAT D'ESAIS

Page 02 of 02

Certification Date
22-NOV-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00021560

Invoice Number
T386186

PART NUMBER/NUMÉRO DE PIÈCE
547381

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD	QC J6S 5L1	935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIE QC J6S

Description: STRESSPROOF® CF BAR ASTM A108
5 RD S/C 4'0" (48.0")

Line Total: 267.28 LB

HEAT: A180131 ITEM: 547381

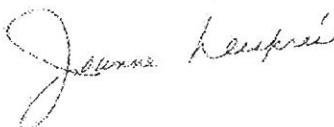
STRAND CAST REDUCTION RATIO 6.7 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

ACCEPTED FOR 1E0368 PN 141-5849 MP PER JMD 10-22-18

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

1	2	3	4	5	6	7	8
A REV. A	REVISION NEW ISSUE	DESCRIPTION NEW ISSUE		DATE 17.08.09	BY VM	APPROVED WM	2011.08.12

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR
SPECIFICATION: ASTM A311 or UNS G11440
PART NUMBER: MT-1144-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
E.G. 5/8" ROUND BAR = MT-1144-R0.625

DART <small>AEROSPACE</small> Manufacturing, Design, Create		A
TITLE: AISI 1144 STRESSPROOF STEEL ROUND BAR		REV:
DRAWING NO.	MT-1144-R	REV
DESIGN BY:	VM 09/09/2017	FRACTIONS 1/16
DRAWN BY:	VM 09/09/2017	ANGLES 1/8"
CHECKED:	VM 09/09/2017	AX 1/8"
MAILED BY:	SAC 09/09/2017	1. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
DA APPROV'D:	DO 09/09/2017	2. TOLERANCES ARE AS TO TOOL PER PRINTED DRAWING
APPROVED:	VM 09/09/2017	3. DIMENSIONAL LIMITS APPLY TO THE DRAWINGS
DATE:	09/09/2017	SCALE: N 1:1 SHEET 1 OF 1
COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD AND IS FOR INTERNAL USE ONLY. IT IS NOT TO BE COPIED OR DISSEMINATED WITHOUT THE EXPRESS WRITTEN CONSENT OF DART AEROSPACE LTD.		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MJ-1144-R5.000
 DATE: 18/11/26

PO / BATCH NO.: P00416741

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4ft
 QUANTITY INSPECTED: 4ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5.000"
 THICKNESS RECEIVED: 5.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	ASTM A36
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	H.T. A180131
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	BAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>61</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE:	<u>18/11/26</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Chemical certification
Certification chimique

21547N

Order Num / No. Commande AC-21547	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA	Date 08/31/17	Heat / coulée 300536	Material ID # / No. matière
Grade / Nuance 4140 PLT	Conditions HEAT TREATED Q&T				
Shape / Forme FLAT	Size / Dimension 2.000	Specifications ASTM A829/A829M			

Chemical composition / Analyse chimique					
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)		
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190		
Actuel % 0.410	0.226	0.743	0.007		
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)		
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500		
Actuel % 0.001	0.950	0.530	0.180		
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)		
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000		
Actuel % 0.183	0.032	0.032	0.000		
Cobalt (Co)	Titanium (Ti)				
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	
Actuel % 0.000	0.000	0.000	0.000	0.000	
Mechanical properties / Propriétés Mécaniques					
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
0.000	PSI	0.000	PSI	0.00	305
					BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut ont été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

M/

Prepared by: / Préparé par:

Heat: 300536

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION:

ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-[T.TTT]x[W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	1B-544	18.2.13	V.M	M.L.

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-440-S-2.00x4.000
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131153

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8ft
 QUANTITY INSPECTED: 8ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.00"
 THICKNESS RECEIVED: 2.00"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	Y <u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	Y <u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	Y <u>(Y)</u> N	<u>ASTM A829</u>
CORRECT THICKNESS	Y <u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	Y <u>(Y)</u> N	<u>HT:300536</u>
CORRECT MATERIAL IDENTIFICATION	Y <u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	Y <u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	<u>BAC</u> <u>01</u> <u>9-89</u>	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____		SIGNED OFF BY: _____
DATE: <u>18/11/23</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Chemical certification
Certification chimique

21547

Order Num / No. Commande AC-21547	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA	Date 07/15/18	Heat / coulée 304714	Material ID # / No. matériel
Grade / Nuance 4140 PLT	Conditions HEAT TREATED Q&T				
Shape / Forme FLAT	Size / Dimension 1.500	Specifications ASTM A829/A829M			

Chemical composition / Analyse chimique					
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)		
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190		
Actuel % 0.420	0.219	0.759	0.009		
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)		
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500		
Actuel % 0.001	1.010	0.140	0.230		
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)		
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000		
Actuel % 0.165	0.039	0.021	0.000		
Cobalt (Co)	Titanium (Ti)				
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	
Actuel % 0.000	0.000	0.000	0.000	0.000	
Mechanical properties / Propriétés Mécaniques					
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
0.000 PSI	0.000 PSI	0.00	0.00		300/312 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut ont été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

M/

Prepared by: / Préparé par:

heat: 304714

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI4140 / 4142 STEEL SHEET OR PLATE
 MINIMUM ROCKWELL C = 28 Rc
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION:

ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-[T,TTT] x [W,WWW]
 WHERE "T,TTT" = THICKNESS IN INCHES
 WHERE "W,WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

D		C		B		A	
1	2	3	4	5	6	7	8
REV.	DESCRIPTION		ECN #		DATE		APPROVED
A	NEW ISSUE		18-544		18.2.13		VM ML
DART <small>Aerospace</small> <small>Headquarters, Orlando, Florida</small>							
AI51410 / 4142 STEEL SHEET OR PLATE							
Part No.	MT-4140-S		Rev	A			
TOOL NO.			-				
UNLINED OTHERWISE APPROVED INTERFACED PLATE BY 143-2023 DIMENSIONS APPLY AT 143-2023 TOLERANCES XXX ± .005 XX ± .010 X ± .015 SURFACE ROUGHNESS 1.5 2.5 3.5							
DESIGNED BY:	INITIALS AND DATE		VM 21/2/2018				
DRAWN BY:			VM 02/13/2018				
CHECKED BY:			VM 02/13/2018				
MFG REVIEW BY:			DO 02/13/2018				
APPROVED BY:			ML 02/14/2018				
SHEET 1 OF 1 COPYRIGHT © 2018 BY DART AEROSPACE LTD THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF DART AEROSPACE LTD. IT IS STRICTLY PROHIBITED TO REPRODUCE, DISTRIBUTE, OR DISCLOSE THIS INFORMATION WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE LTD.							
3	4	5	6	7	8	9	10

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-S-1.500 X 2.000
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131154

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8ft
 QUANTITY INSPECTED: 8ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>ASTM A829</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>HT:304714</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> <small>9-89</small>	SIGNED OFF BY: _____
DATE: <u>AT 18/11/23</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy

CO001122309

Billed to	Shipped to	Customer N°	CLI0001056
DART AEROSPACE LTD	1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	Date	2018/11/26
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	Att : LUSSIER Tel.: (613) 632-5200 X 730	Delivery date	2018/11/27
	Delivery Route	Your order N°	041674
F-M	5	Processed by	Denis Quenneville
		Salesman	OUELLETTE VALLEYFIELD
		Carrier	Net 30 Days
		Credit Terme	

Product Description	Weight	Qty	UM	PCS NB						Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT		
1 TUBE MEC 5.250 OD X .375 NS TME-5250375 12191 1 X 12' AC 25132-JIG HEAT: 0110119	234.24	12.00	PI-\$PI										

Note : ATTENTION: MILL TEST REQUIS**Total Weight (Lbs) :**

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Aciel Ouellette Inc" until payment is made in full, complete and cashed. All lost, materials are at the buyer's expense. The warranty offered by "Aciel Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Aciel Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time
---------------	---------------	----------------	------

Customer's Signature	Y	M	D
	18	11	27
Date			

100042
CERTIFICATE OF TEST
CERTIFICAT D'ESAIIS

21582N

Page 01 of 02

Certification Date
21-NOV-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T386166

AC00021532

PART NUMBER/NUMÉRO DE PIÈCE

108425

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6S

Description: 1026 DOM SRA A513/5 Line Total: 12 FT
5.250 OD X 4.500 ID S/C 12'0" (144.0")
HEAT: 0110119 ITEM: 108425

Specifications:
ASTM A513 TP 5 14 EN 10204 TYPE 3.1B ISO 10474
DIN 50049 ASTM A513 S5 ASTM A370

CHEMICAL ANALYSIS

C	MN	P	S	SI	AL	CU	NI
0.23	0.66	0.008	0.006	0.013	0.027	0.04	0.01
CR	MO	V	CA				
0.04	0.01	0.00	0.00				

RCPT: R627562

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS RB
BAR	77654.0	88942.0	23.48		87
E-MAIL	77654.0	88942.0	23.48		87
EE	77654.0	88942.0	23.48		87

GRAIN SIZE : 5

NOV. 2018

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

Heat: 0110119

CERTIFICATE OF TEST CERTIFICAT D'ESAIIS

Page 02 of 02

Certification Date
21-NOV-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00021532

Invoice Number
T386166

PART NUMBER/NUMÉRO DE PIÈCE
108425

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1

Description: 1026 DOM SRA A513/5
5.250 OD X 4.500 ID S/C 12'0" (144.0")
HEAT: 0110119 Line Total: 12 FT
ITEM: 108425

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
EDDY CURRENT: YES
ULTRASONIC: YES

COMMENTS

melt mill severstal dearborn
melt country usa
melt practice basic oxygen
red. ratio > 6:1
dfars compliant yes

PAR E-MAIL LE 27 NOV. 2018

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW RELEASE	11-455	17-09-06	VM	WM
B	TYPE 5 ADDED, TEMPLATE UPDATED	17-790	17-12-13	VM	ML

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-[D.DDD]W[T.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

DART AEROSPACE		10000 Hwy 100, Chino, CA 91709
Title: ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)		
Part No.: MT-A513-T		
Tool No.	Unless otherwise specified: INTERIOR PERN SIZE: 1/4" & 3/8" & DIMENSIONS APPLY AFTER PUSHERING	Rev. B
Designed by:	Initials and Date:	
Drawn by:	VM 17/12/2013	FRACTIONS: ± 1/8
Checked by:	VM 12/12/2013	XX ± .005
MFG Review by:	ML 12/20/2013	XX ± .01
Approved by:	DP 12/20/2013	XX ± .1
	ML 12/20/2013	SCALE: MTS
		Sheet 1 of 1
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-5.250W0.375
 DATE: 18/11/27

PO / BATCH NO.: P0041674/S13-2038

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 124
 QUANTITY INSPECTED: 124
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5.250"
 THICKNESS RECEIVED: 5.250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	<i>ASTM A513 Type S</i>
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<i>MT-0110119</i>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>61</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>18/11/27</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

120175

Dart.

21547N

Chemical certification
Certification chimique

Order Num / No. Commande AC-21547	Vendor / Fournisseur 29	Country of origin / Pay d'origine USA	Date 01/05/18	Heat / coulée L8121	Material ID # / No. matériel
Grade / Nuance 4140 RD	Conditions				
Shape / Forme RD	Size / Dimension 9.000	Specifications ASTM A29-15			

Chemical composition / Analyse chimique

	Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)
Mini / maxi	0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0000 / 0.0000
Actuel %	0.410	0.270	0.970	0.012
	Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
Mini / maxi	0.0000 / 0.0000	0.7500 / 1.2000	0.0000 / 0.0000	0.1500 / 0.2500
Actuel %	0.027	0.940	0.130	0.200
	Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel %	0.260	0.000	0.034	0.000
	Cobalt (Co)	Titanium (Ti)		
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel %	0.000	0.000	0.000	0.000

Mechanical properties / Propriétés Mécaniques

Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
800.200 PSI	116.144 PSI	18.30	40.00		269 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut ont été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

M

Prepared by: / Préparé par:

heat: L8121

1	2	3	4	REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A					NEW ISSUE	17-780	17-12-13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 ROUND BAR
 MINIMUM ROCKWELL C = 20 Rc
 MAXIMUM ROCKWELL C = 38 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529

PART NUMBER: MT-4140-R[D,DDD]
 WHERE "D,DDD" = DIAMETER IN INCHES
 EX. 4" ROUND BAR = MT-4140-R-4.000

DART		Aerospace
Technical Drawing, Order No. 12345		
Title: AISI 4140 ROUND BAR		
Part No: MT-4140-R		
Rev: A		
Date: 12/20/2017		
Initials and Date		
INTERPRETER'S AND DESIGNER'S SIGNATURES OR APPROVAL STAMPS ARE TO BE PLACED ON THIS LINE		
DRAWN BY: VM 17/12/13		
CHECKED BY: ML 12/19/2017		
MFG REVIEW BY: DF 12/20/2017		
APPROVED BY: ML 12/20/2017		
Copyright © 2017 DART Aerospace Ltd.		
Scale: 1:1		
Sheet 1 of 1		
This document is the property of DART Aerospace Ltd. It is to be returned to DART Aerospace Ltd. when no longer required.		

ML

6

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R9.00
 DATE: 18/11/26

PO / BATCH NO.: P2041674/S131155

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 2.25ft
 QUANTITY INSPECTED: 2.25ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 9.00"
 THICKNESS RECEIVED: 9.00"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<u>ASTM A29</u>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<u>MT:L8121</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> <u>0-89</u>	SIGNED OFF BY: _____
DATE: <u>18/11/26</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in